. Notice of Allowability	Application No. Applicant(s)			
	9/778,702	BHATT ET AL	BHATT ET AL.	
	Examiner			
	Jose H Alcala	2827		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	or other appropriate commun	the correspondence ac	luded	
 This communication is responsive to <u>amendment filed on 5</u> The allowed claim(s) is/are <u>9-11,15-20 and 22-31</u>. The drawings filed on are accepted by the Examiner Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have 	r. er 35 U.S.C. § 119(a)-(d) or ([.] been received.			
3. Copies of the certified copies of the priority doc	been received in Application	No		
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	uments have been received i	n this national stage appli	ication from the	
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority unit (a) The translation of the foreign language provisional ap 6. Acknowledgment is made of a claim for domestic priority unit Applicant has THREE MONTHS FROM THE "MAILING DATE" of the below. Failure to timely comply will result in ABANDONMENT of the foreign language provisional applicant has THREE MONTHS FROM THE "MAILING DATE" of the below. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the follow. Failure to timely comply will result in ABANDONMENT of the following in Comply will result in ABANDONMENT of the following comply will re	plication has been received. der 35 U.S.C. §§ 120 and/or this communication to file a realis application. THIS THREE ted. Note the attached EXAM n(s) why the oath or declaration's Patent Drawing Review (the content of the comment or in the content or in the con	eply complying with the re- E-MONTH PERIOD IS NO INER'S AMENDMENT of on is deficient. PTO-948) attached which has been approved the Office action of Pape	or EXTENDABLE r NOTICE OF d by the Examiner er No	
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR THE	OF BIOLOGICAL MATERI E DEPOSIT OF BIOLOGICAI	IAL must be submitted. L MATERIAL.	. Note the	
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No	4∐ Interview Su 6∐ Examiner's	formal Patent Application ummary (PTO-413), Pape Amendment/Comment Statement of Reasons for	er No	

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Allowable Subject Matter

Drawings

1. The corrected or substitute drawings were received on 5/13/03. These drawings are approved.

Reasons for Allowance

2. The prior art fails to teach, disclose, or suggest, either alone or in combination, at least on claims 1 and 28, a printed wiring board comprising: a dielectric substrate having upper and lower surfaces; at least one landless filled plated through hole disposed through the substrate from the upper to the lower surface, the through hole haring a first diameter; the through hole further comprising an inner surface extending from the upper to the lower surface, the inner surface plated with a conductive metal plating, the inner surface plating having an upper end aligned with the substrate upper surface and a lower end aligned with the substrate lower surface; the though hole filled with a filler composition having upper and surfaces, wherein the filler composition upper surface is aligned with the dielectric substrate upper surface and the through hole inner surface plating upper end, the filler composition upper surface, substrate upper surface and inner surface plating upper end, thereby defining a smooth upper subcomposite surface; and an additively plated unetched first circuitry line having a bottom surface plated directly onto the at least one plated through hole inner surface plating upper end and said upper subcomposite surface and thereby electrically

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connected to said plated through hole, the first circuit line further comprising a top surface having a common line width approximately equal to or less than the first diameter. Therefore, dependent claims 10,11,15-20,22-27 and 29-31 are also allowed.

Conclusion

- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jose H Alcala whose telephone number is (703) 305-9844. The examiner can normally be reached on Monday to Friday.
- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.
- 5. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JHA June 16, 2003

> DAVID L. TALBOTT SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800